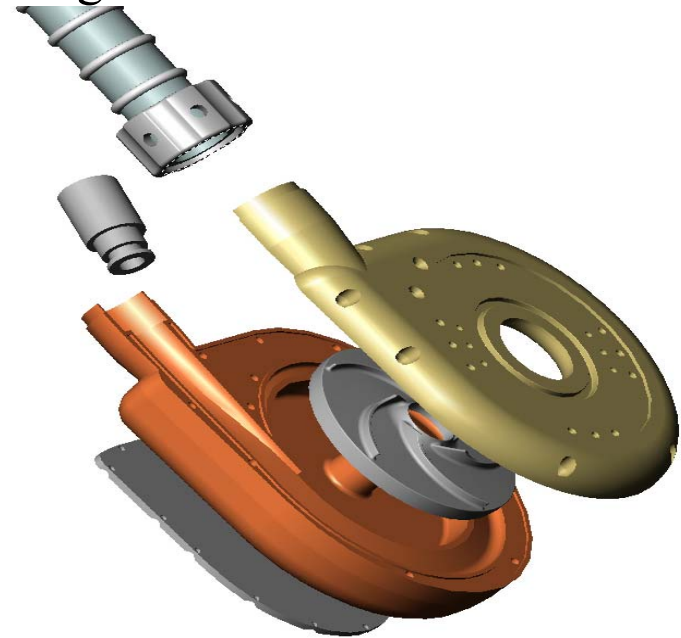
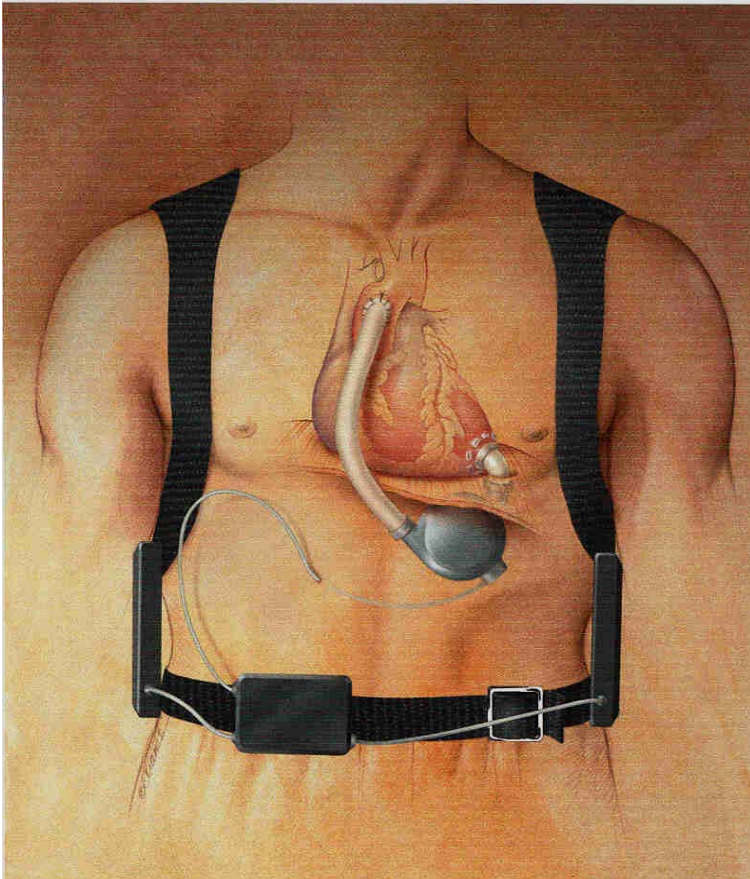


Magnetically Suspended Rotor Blood Pump

Utah Artificial Heart Institute

MedQuest Products, Inc.

University of Virginia



Impeller:

5 blades, 47 *mm* diameter

Levitated by magnetic bearings

Operating Point: 6 *lpm* @
100 *mmHg*

Design of Blood Flow Path

Objectives:

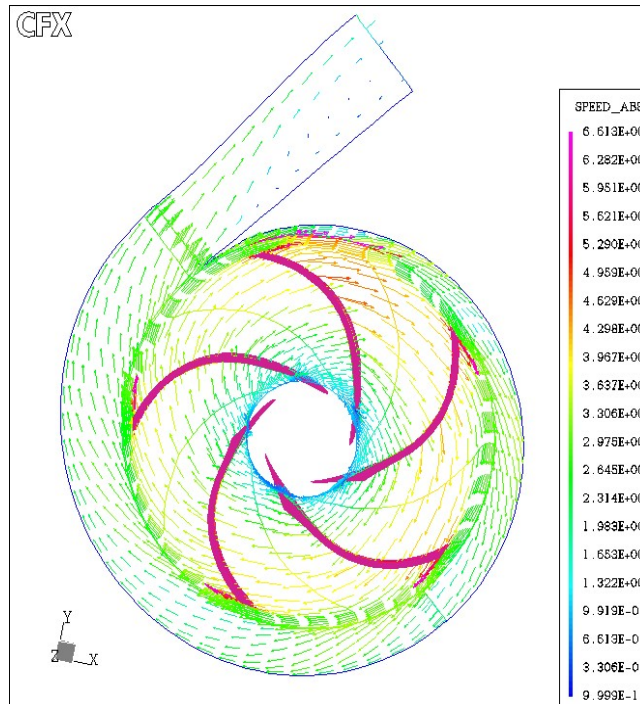
- Minimize thrombosis
- Minimize hemolysis

Techniques:

- Computer Modeling
- Experimental Measurements

Computer Modeling

Computational Fluid Dynamics (CFD)



Experimental

Particle Image Velocimetry (PIV)

